

ABSTRACT

The invention relates to a device with a fuel cell or a fuel cell stack, in which an electrode of a fuel cell is separated from an adjacent passage or space for the supply of a working medium by a perforated plate, in which the size and/or density of the holes increases from a midline to the edge, and the midline runs parallel to the flow direction of the working medium.

Such a device improves the avoidance of thermal gradients in the interior of
10 the fuel cell or a fuel cell stack.

In order further to prevent temperature gradients, this device is cooled by an external cooling device by evaporation of a cooling medium. The heat transfer takes place mainly by thermal radiation.